

APPLICATION NO.
09/929,865

FILING DATE
August 14, 2001

GROUP ART UNIT
3745

**INFORMATION DISCLOSURE
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U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Sub-class	Translation
						No
						No
						No
						No
						No

OTHER DOCUMENTS (Including: Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	Document Description
	Hong, S. et al. "A Nanoplotter with Both Parallel and Serial Writing Capabilities", <u>Science</u> Vol. 288, No. 5472, June 9, 2000 6pgs.
	Hong, Z. et al. "Multiple Ink Nanolithography", Toward a Multiple-Pen Nano-Plotter", <u>Science</u> Vol. 286, No. 5439, October 15, 1999 5pgs.
	Piner, R.D., et al. "Dip-Pen Nanolithography", <u>Science</u> Vol. 283, No. 5402, January 29, 1999 5pgs.

EXAMINER

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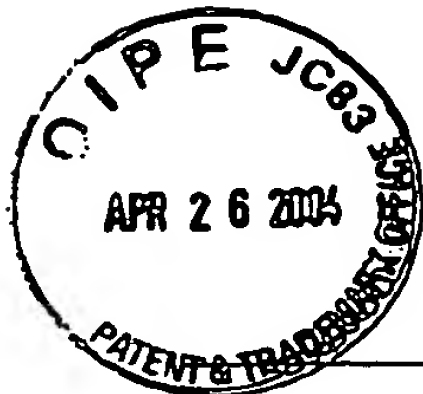
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Rev. 2-92) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 016348/9005
SERIAL NO.: 09/929,865
APPLICANT: Henderson, et al.
FILING DATE: August 14, 2001
CONFIRMATION NO. 8708
GROUP: 1634

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U.S. PATENT DOCUMENTS

EXAMINER R INITIAL		DOCUMENT NUMBER	DATE	NAME	C L A S S	SUBCLASS	FILING DATE IF APPROPRIATE
W	AA	USSN 09/974,757 US 2002/0042081	04/11/2002	Henderson <i>et al.</i>			
	AB	USSN 09/929,865 US 2002/0076927	06/20/2002	Henderson <i>et al.</i>			
	AC						
	AD	USSN 10/179,102 US 2003/0013111	01/16/2003	Henderson <i>et al.</i>			
	AE	USSN 10/160,372 US 2002/0172943 A1	11/21/2002	Henderson <i>et al.</i>			
	AF	USSN 10/128,727 US 2002/0123135	09/05/2002	Henderson <i>et al.</i>			
	AG						
	AH	US 2002/0179434 A1	12/05/2002	Dai <i>et al.</i>			
	AI	US 2002/0146714 A1	10/10/2002	Lieber <i>et al.</i>			
	AJ	US 2002/0122873 A1	09/05/2002	Mirkin <i>et al.</i>			
	AK	US 2002/0114987 A1	08/22/2002	Oscarsson <i>et al.</i>			
	AL	US 2002/0063212 A1	05/30/2002	Mirkin <i>et al.</i>			
	AM	4,728,591	03/01/1988	Clark <i>et al.</i>			
	AN	5,106,729	04/21/1992	Lindsay <i>et al.</i>			
	AO	5,138,174	08/11/1992	Tang			
	AP	5,143,854	09/01/1992	Pirung <i>et al.</i>			
	AQ	5,314,829	05/24/1994	Coles			
	AR	5,346,683	09/13/1994	Green <i>et al.</i>			
	AS	5,363,697	11/15/1994	Nakagawa			
	AT	5,372,930	12/13/1994	Colton <i>et al.</i>			
	AU	5,384,261	01/24/1995	Winkler <i>et al.</i>			
	AV	5,440,122	08/08/1995	Yasutake			
	AW	5,443,791	08/22/1995	Cathcart <i>et al.</i>			
	AX	5,445,934	08/29/1995	Fodor <i>et al.</i>			
	AY	5,445,971	08/29/1995	Rohr, T.			
	AZ	5,453,970	09/26/1995	Rust <i>et al.</i>			
	BA	5,467,642	06/09/1998	Hosaka <i>et al.</i>			
	BB	5,472,881	12/05/1995	Beebe <i>et al.</i>			
	BC	5,482,601	01/09/1996	Ohshima, <i>et al.</i>			
	BD	5,514,540	05/07/1996	Teoule <i>et al.</i>			
	BE	5,514,550	05/07/1996	Findlay <i>et al.</i>			
	BF	5,519,212	05/21/1996	Elings <i>et al.</i>			
	BG	5,532,128	07/02/1996	Eggers <i>et al.</i>			

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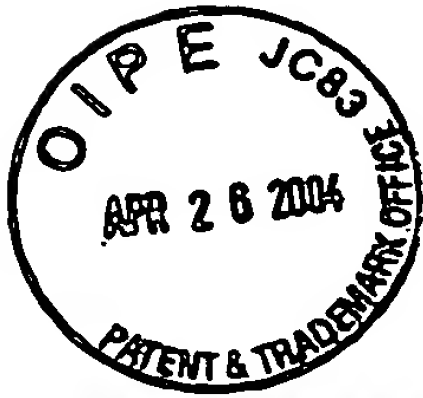
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W	BH	5,571,639	11/05/1996	Hubbell <i>et al.</i>		
	BI	5,601,982	02/11/1997	Sargent <i>et al.</i>		
	BJ	5,604,097	02/18/1997	Brenner		
	BK	5,620,854	04/15/1997	Holzrichter <i>et al.</i>		
	BL	5,666,190	09/09/1997	Quate <i>et al.</i>		
	BM	5,670,322	09/23/1997	Eggers <i>et al.</i>		
	BN	5,688,486	11/1/8/1997	Watson <i>et al.</i>		
	BO	5,720,928	02/24/1998	Schwartz		
	BP	5,744,305	04/28/1998	Fodor <i>et al.</i>		
	BQ	5,753,088	05/19/1998	Olk, C.		
	BR	5,760,300	06/02/1998	Kajimura, H.		
	BS	5,763,768	06/09/1998	Henderson <i>et al.</i>		
	BT	5,789,167	08/04/1998	Konrad		
	BU	5,800,992	09/01/1998	Fodor <i>et al.</i>		
	BV	5,837,832	11/17/1998	Chee <i>et al.</i>		
	BW	5,840,862	11/24/1998	Bensimon <i>et al.</i>		
	BX	5,846,724	12/08/1998	Bensimon <i>et al.</i>		
	BY	5,851,769	12/22/1998	Gray <i>et al.</i>		
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	CB	5,874,219	02/23/1999	Rava <i>et al.</i>		
	CC	5,874,668	02/23/1999	Xu <i>et al.</i>		
	CD	5,958,701	09/28/1999	Green <i>et al.</i>		
	CE	5,965,133	10/12/1999	Cantor <i>et al.</i>		
	CF	5,981,733	11/09/1999	Gamble <i>et al.</i>		
	CG	5,985,356	11/16/1999	Schultz <i>et al.</i>		
	CH	5,992,226	11/30/1999	Green <i>et al.</i>		
	CI	5,993,627	11/30/1999	Anderson <i>et al.</i>		
	CJ	6,004,617	12/21/1999	Schultz <i>et al.</i>		
	CK	6,024,925	02/15/2000	Little <i>et al.</i>		
	CL	6,033,911	03/07/2000	Schultz <i>et al.</i>		
	CM	6,045,671	04/04/2000	Wu <i>et al.</i>		
	CN	6,080,586	06/27/2000	Baldeschwieler <i>et al.</i>		
	CO	6,083,763	07/04/2000	Balch		
	CP	6,087,274	07/11/2000	Tonucci <i>et al.</i>		
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	CS	6,143,574	11/07/2000	Karlsson <i>et al.</i>		
	CT	6,146,899	11/14/2000	Porter <i>et al.</i>		
	CU	6,159,742	12/12/2000	Lieber <i>et al.</i>		
	CV	6,171,797 B1	01/09/2001	Perbost		
	CW	6,180,114	01/30/2001	Yager		

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CX	6,200,737	03/13/2001	Walt et al.
CY	6,203,814 B1	03/20/2001	Fisher et al.
CZ	6,214,552	04/10/2001	Heroux, et al.
DA	6,218,122	04/17/2001	Friend et al.
DB	6,231,744 B1	05/15/2001	Ying et al.
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DD	6,239,273 B1	05/29/2001	Pease et al.
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DF	6,270,946	08/07/2001	Miller
DG	6,278,231 B1	08/21/2001	Iwasaki et al.
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DI	6,287,850 B1	09/11/2001	Besemer et al.
DJ	6,289,717	09/18/2001	Thundat et al.
DK	6,309,831 B1	10/30/2001	Goldberg et al.
DL	6,329,209 B1	12/11/2001	Wagner et al.
DM	6,331,396 B1	12/18/2001	Silverman
DN	6,350,609	02/26/2002	Morozov et al.
DO	6,395,554	05/28/2002	Regan et al.
DP	6,406,921 B1	06/18/2002	Wagner et al.
DQ	6,416,952	07/09/2002	Pirung et al.
DR	6,420,105	07/16/2002	Landfield et al.
DS	6,436,647 B1	08/20/2002	Quate et al.
DT	6,518,168	02/11/2003	Clem et al.
DU	6,573,369 USSN 09/574,519	06/03/2003	Henderson et al.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DV	JP 08094646	4/12/1996	SHIMADZU CORP			ABS
DW	JP 07027771	1/31/1995	HITACHI LTD.			ABS
DX	JP 06124680	1994	JEOL LTD.			ABS
DY	WO 98/05920	2/12/1998	WILLIAM MARSH RICE UNIVERSITY (COLBERT)			
DZ	WO 92/15709	9/17/1992	ABBOTT LABORATORIE			
EA	WO 96/31975	10/10/1996	OSCARSSON			
EB	WO 97/06420	02/02/1997	BENSIMON			
EC	WO 97/18326	05/22/1997	PASTEUR INSTITUTE			

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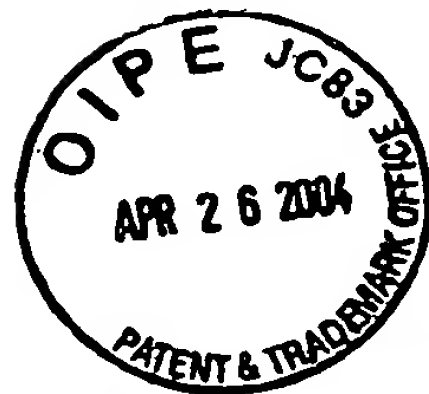
ED	WO 98/18959	5/7/1998	PASTEUR INSTITUTE
EE			
EF	WO 99/31267	6/24/1999	SEPRACOR INC.
EG	WO 00/04382	1/27/2000	ZYOMYX, INC.
EH	WO 00/04389	1/27/2000	ZYOMYX, INC.
EI	WO 00/04390	1/27/2000	ZYOMYX, INC.
EJ	WO 00/36136	6/22/2000	PALATIN TECHNOLOGIES, INC.
EK	WO 00/41213	7/13/2000	NORTHWESTERN UNIVERSITY
EL	WO 00/46406	8/10/2000	ALPHAGENE, INC.
EM	WO 01/60316	08/23/2001	OSCARSSON, SVEN
EN	WO 01/918555	12/06/2001	NORTHWESTERN UNIVERSITY
EO	WO 03/001633	01/03/2003	NORTHWESTERN UNIVERSITY
EP	WO 03/036767	05/01/2003	UNIVERSITY OF ILLINOIS
EQ	WO 03/038033	05/08/2003	NORTHWESTERN UNIVERSITY
ER	WO 03/048314	06/12/2003	MIRKIN
ES	WO 03/052514	06/26/2003	NORTHWESTERN UNIVERSITY

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M	ET	"Microbeam Mass Spectrometry" <i>Chemical Science and Technology Laboratory, Surface and Microanalysis Science Division</i> http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm 7/18/2002.
	EU	Abstracts of Papers Part I, 214 th "Abstract 027" <i>ACS National Meeting American Chemical Society</i> , September 1997, 2 pgs.
	EV	ALLISON, D., <i>et al.</i> , "Direct atomic force microscopy imaging of <i>EcoRI</i> endonuclease site specifically bound to plasmid DNA molecules" <i>PNAS USA</i> , 1996, 93:8826-8829.
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	EX	ALVES, <i>et al.</i> , "Atomic scale imaging of alkanethiolate monolayers at gold surfaces with atomic force microscopy: <i>J. Am. Chem. Soc.</i> , February 1992, 114(4):1222-1227.
	EY	AMRO, <i>et al.</i> , "Patterning surfaces using tip-directed displacement and self-assembly" <i>Langmuir</i> , 2000, 16:3006-3009.
	EZ	ANWANDER, <i>et al.</i> , "Surface characterization and functionalization of MCM-41 silicas via silazane silylation" <i>J. Phys. Chem. B.</i> , 2000, 104:3532-3544.
	FA	ARNTZ, <i>et al.</i> , "Label-free protein assay based on a nanomechanical cantilever array" <i>Nanotechnology</i> , 14 (2003) 86-90.
	FB	AUSUBEL, F.M., <i>et al.</i> "Current Protocols in Molecular Biology" 1993 ed. Vol. 1&2, 1993, Green Publishing Associates and Wiley-Interscience.
	FC	AVOURIS, P., <i>et al.</i> , "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown" <i>Science</i> , April 2001, 292(5517):706-799..
	FD	BAILEY, C.P., <i>et al.</i> , Cationic oligonucleotides can mediate specific inhibition of gene expression in <i>Xenopus oocytes</i> " <i>Nuc. Acids Res.</i> , 1998, 26(21):4860-4867.
	FE	BAIN, <i>et al.</i> , "Modeling organic surfaces with self-assembled monolayers" <i>Agnew. Chem. Int. Ed. Engl.</i> , 1989, 28(4):506-512.
	FF	BASELT, D.R., <i>et al.</i> , "A biosensor based on magnetoresistance technology" <i>Biosens. Bioelectorn</i> , 1998, 13(7-8):731-739.
	FG	BEDOUELLE, H., "Reagentless fluorescent Immunosensors" <i>Antibody Engineering</i> , IBC's 13 th International Conference, December 2, 2002.
h	FH	BELAUBRE, P. <i>et al.</i> , "Fabrication of biological microarrays using microcantilevers" <i>Applied Physics Letters</i> , 5 May 2003, 82(18):3122-3124.

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M	FI	BENSIMON, A., <i>et al.</i> , "Alignment and sensitive detection of DNA by a moving interface" <i>Science</i> , 1994, Sep 30; 265(5181):2096-2098 [PMID 7522347] Abstract.
	FJ	BERGGREN, <i>et al.</i> , "Microlithography by using neutral metastable atoms and self-assembled monolayers" <i>Science</i> , September 1995, 269(5228):1255-1257.
	FK	BERNARD, <i>et al.</i> "Printing patterns of proteins" <i>Langmuir The ACS Journal of Surfaces and Colloid</i> , April 1998, 14(9):2225-2229.
	FL	BINGGELI, <i>et al.</i> , "Influence of capillary condensation of water on nanotribology studied by force microscopy" <i>Appl. Phys. Lett.</i> , July 1994, 65(4):415-417.
	FM	BINNING, <i>et al.</i> , "Surface studies by scanning tunneling microscopy" <i>Phys. Rev. Lett.</i> , 1982, 49(1):57-61.
	FN	BINNING, G., <i>et al.</i> , "Atomic force microscope" <i>Phys. Rev. Lett.</i> , 1986, 56(9):930-933.
	FO	BISHOP, <i>et al.</i> , "Self-assembled monolayers: recent developments and applications" <i>Colloid & Interface Science</i> , February 1996, 1:127-136.
	FP	BOTTOMLEY, L., "Scanning probe microscopy" <i>Anal. Chem.</i> , June 1998, 70(12):425R-475R.
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	FR	BRENNER, S., <i>et al.</i> , "Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays" <i>Nat. Biotechnol</i> 2000, June 18(6):630-634, 2000.
	FS	BRODY, E., and Gold, L., "Aptamers as therapeutic and diagnostic agents" <i>Molecular Biotechnology</i> , 2000, 74:5-13.
	FT	BRUCKBAUER, <i>et al.</i> , "Writing with DNA and Protein Using a Nanopipet for Controlled Delivery" <i>JACS</i> , 2002, A-B.
	FU	BULYK, <i>et al.</i> , "Quantifying DNA-protein interactions by double-stranded DNA arrays" <i>Nature Biotechnology</i> , June 1999, 17:573-577.
	FV	BUSTAMANTE C., <i>et al.</i> , "Circular DNA Molecules Imaged in Air by Scanning Force Microscopy" <i>Biochemistry</i> , 1992, 31:22-26
R	FW	BUSTAMANTE, C., <i>et al.</i> , "Biochemical and structural applications of scanning force microscopy" <i>Curr. Opin. Struct. Biol.</i> , 1994 4(5):750-760.

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m	FX	CARR, <i>et al.</i> , "High-selectivity pattern transfer process for self-assembled monolayer electron beam resists" <i>J. Vac. Sci. Technol.</i> , May/June 1997, 15(3):1446-1450.
	FY	CHENG, <i>et al.</i> , "Preparation and hybridization analysis of DNA/RNA from <i>E. coli</i> on microfabricated bioelectronic chips" <i>Nature Biotechnology</i> , 1998, 16:541-546.
	FZ	CHRISEY <i>et al.</i> , "Fabrication of patterned DNA surfaces" <i>Nucleic Acids Research</i> , (10/1996)24(15):3040-3047.
	GA	CLARK, M.W. <i>et al.</i> , "Nanotechnology tools for functional proteomics analysis" <i>American Biotechnology Laboratory</i> , March 2001, 16-18.
	GB	COLAS, <i>et al.</i> , "Genetic selection of peptide aptamers that recognize an inhibit cyclin-dependent kinase 2", <i>Nature</i> , April 1996 380(11):548-550.
	GC	COLVIN, <i>et al.</i> "Semiconductor nanocrystals covalently bound to metal surfaces with self-assembled monolayers" <i>J. Am. Chem. Soc.</i> , 1992, 114:5221-5230.
	GD	CUI, Y, <i>et al.</i> , "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species" <i>Science</i> , 2001, 293, 1289-1292.
	GE	DAI, <i>et al.</i> , "Nanotube Molecular Wires as Chemical Sensors" <i>Science</i> , 28 January 2000, 287:622-625.
	GF	DAI, H, <i>et al.</i> , "Controlled chemical routes to nanotube architectures" <i>Physics and Devices, J. Phys. Chem B</i> , 1999, 103:11246-11255.
	GG	DAI, H, <i>et al.</i> , "Probing electrical transport in nanomaterials: conductivity of individual carbon nanotubes" <i>Science</i> , 1996, 272(5261):523-526.
	GH	DAMMER, <i>et al.</i> , "Binding strength between cell adhesion proteoglycans measured by atomic force microscopy" <i>Science</i> , 1995, 267:1173-1175.
	GI	DAMMER, <i>et al.</i> , "Specific antigen/antibody interactions measured by force microscopy" <i>Biophys. J.</i> , 1996, 70:2437-2441.
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n	GK	DELAMARCH, E., <i>et al.</i> , "Patterned delivery of immunoglobulins to surfaces using microfluidic networks" <i>Science</i> , 1997, 276:779-781.

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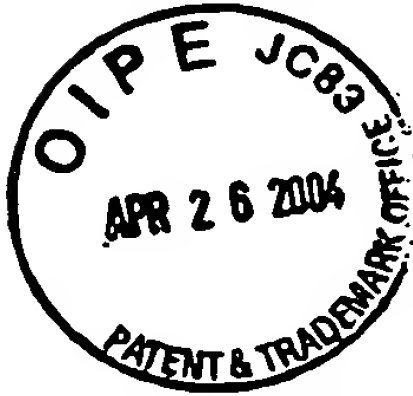
↖	GL	DING, Y., OKA, T., <i>et al.</i> , "Near-field stimulated TOF nanometric surface mass spectroscopy: characterization of Nano-localized surfaces" Joint International Meeting - 200th Meeting of the Electrochemical Society, Inc., 52nd Annual Meeting of the International Society of Electrochemistry, San Francisco, California (2001).
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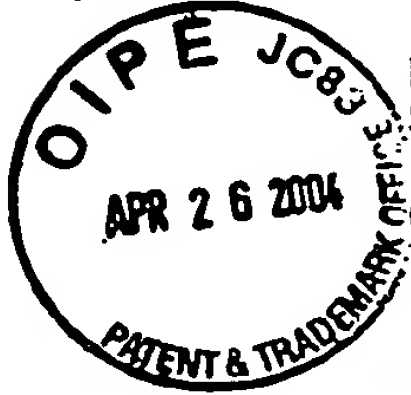
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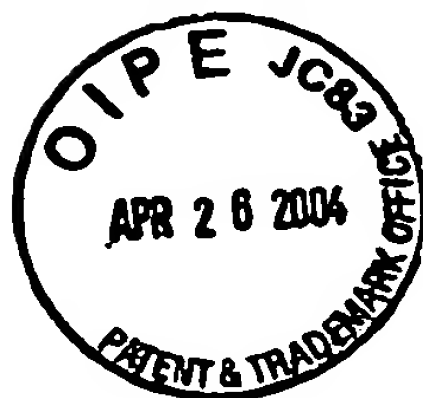
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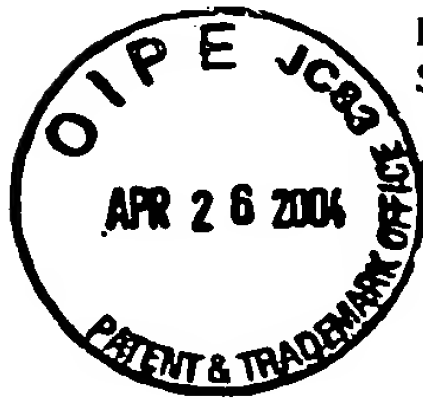
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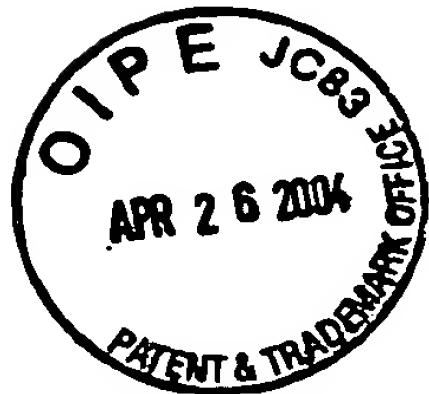
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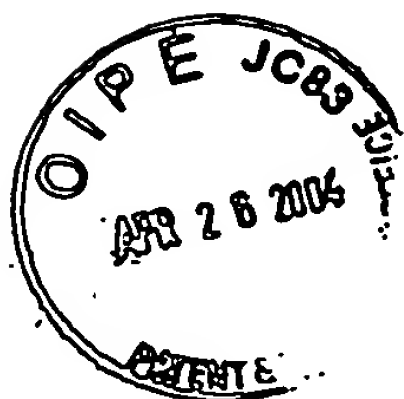
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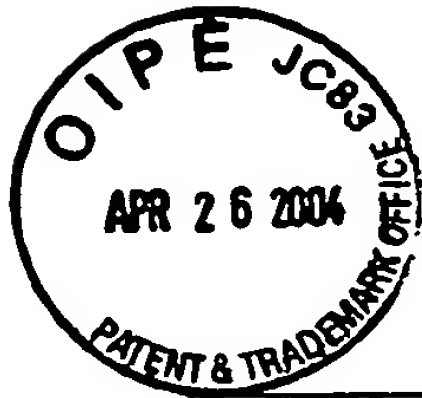
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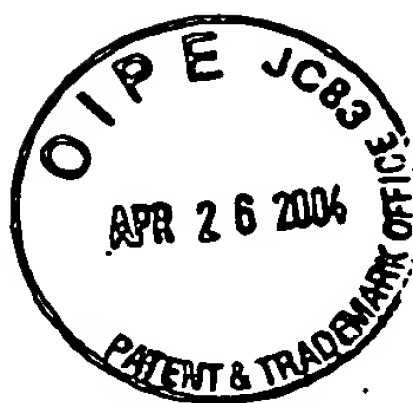
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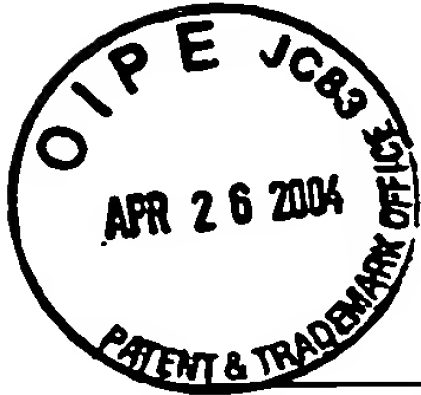
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